

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,426	10/14/2004	Tatsuo Hoshino	21246 US (CO38435/0181394	2404
7590 07/18/2007 Stephen M Haracz		EXAMINER		
Bryan Cave			MARX, IRENE	
1290 Avenue o New York, NY			ART UNIT	PAPER NUMBER
riew rork, rvr			1651	
				•
			MAIL DATE	DELIVERY MODE
. **			07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/511,426	HOSHINO ET AL.		
		Examiner	Art Unit		
	•	Irene Marx	1651		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAIL	ATE OF THIS COMMUNICATION (a) In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. HED (35 U.S.C. § 133).		
Status	·		,		
1)	Responsive to communication(s) filed on	_•·	•		
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims				
4)⊠ 5)□ 6)□ 7)□	Claim(s) <u>1-22</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-22</u> are subject to restriction and/or expressions.	vn from consideration.			
Applicat	on Papers				
10)□	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Example.	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority (inder 35 U.S.C. § 119				
a)(Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applica ity documents have been receiv (PCT Rule 17.2(a)).	ition No ved in this National Stage		
			•		
Attachmen	t(s)	· .			
2) Notice 3) Information	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date		

Application/Control Number: 10/511,426

Art Unit: 1651

DETAILED ACTION

The previous Office action mailed 6/6/07 is rescinded as agreed in the interview on June 27, 2007 and replaced with the current Office action.

Claims 1-22 are pending and subject to restriction.

Election/Restriction

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4, drawn to a purified alcohol dehydrogenase.

Group II, claim(s) 5-12 drawn to a method of making an aldehyde dehydrogenase.

Group III, claim(s) 13-22, drawn to a method of making a carboxylic acid with a purified alcohol dehydrogenase or a cell free extract of *Gluconobacter*.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

First, the inventions of groups II and III do not match a permitted category as PCT Rule 13.2 does not provide for multiple methods or products in one category. For example, group I is directed to a process of making an aldehyde dehydrogenase with a strain of *Gluconobacter* and group III is drawn to a method of using the composition of group I or a cell free extract of *Gluconobacter*, which constitute the use and making of different compositions requiring different levels of purity and/or additional requirements for their functional intended use.

No common inventive concept is shared among groups I through III, since a technical relationship is lacking among the claimed inventions involving one or more special technical features because the production of aldehyde dehydrogenase with *Gluconobacter oxydans* FERM BP-3812 is known in the art. See, e.g., U.S. Patent No. 6,242,233, col. 6, lines 38-46.

The requirement of unity of invention is not fulfilled because there is no technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" means those technical features

Application/Control Number: 10/511,426

Art Unit: 1651

that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art. Therefore, a technical relationship is lacking among the claimed inventions involving one or more special technical features.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (571) 272-0919. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Irene Marx
Primary Examiner
Art Unit 1651